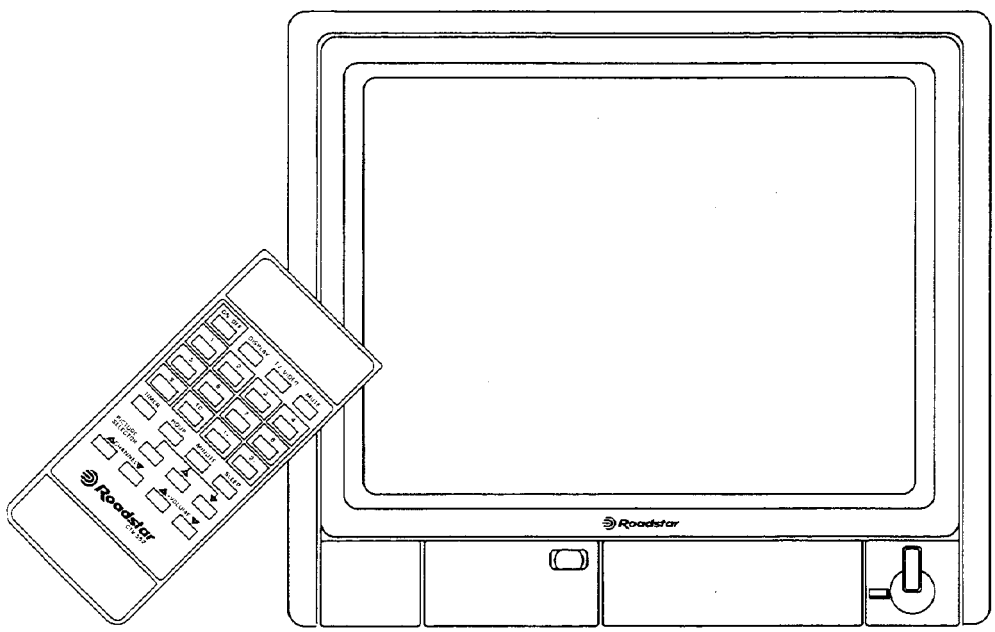
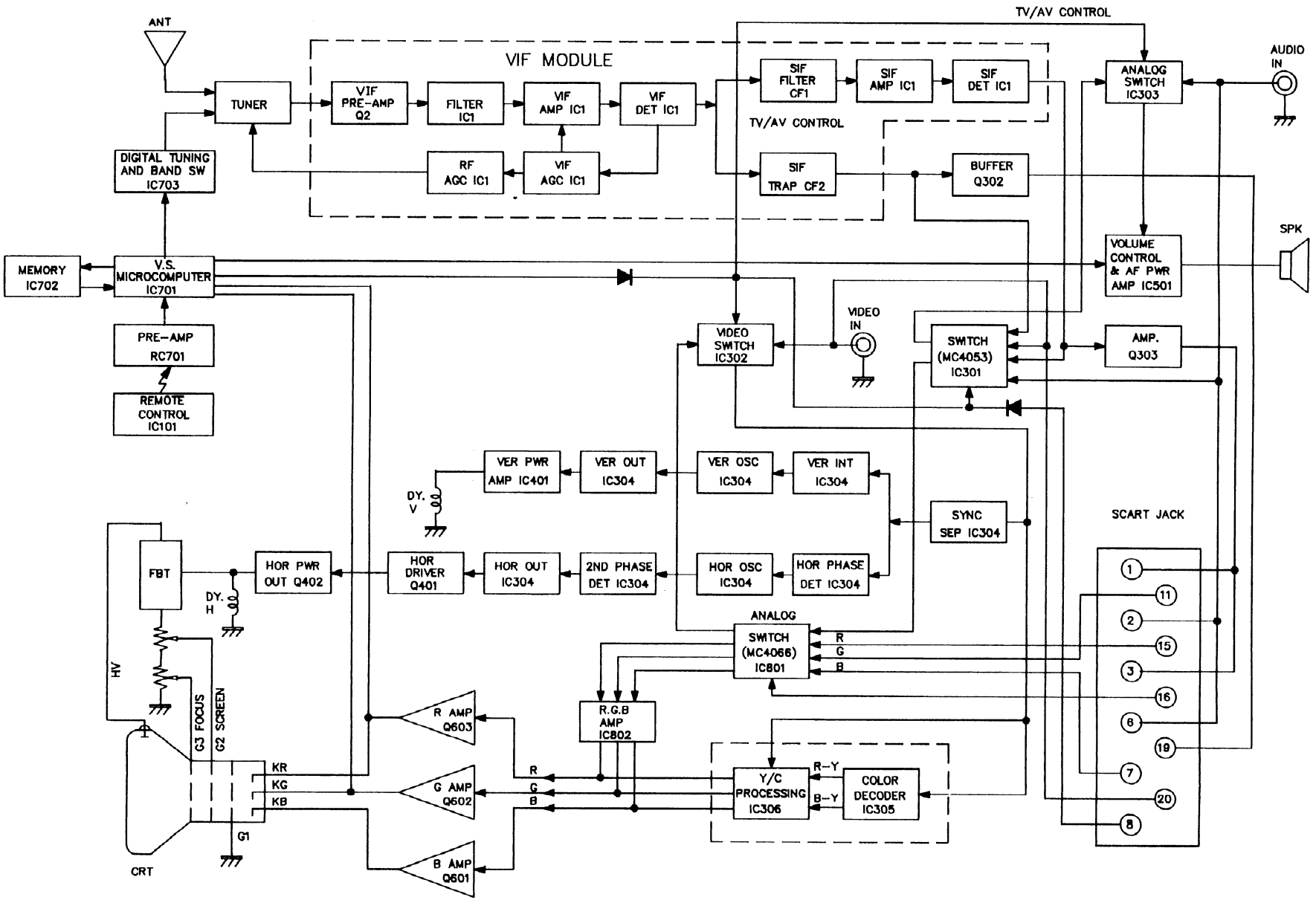
Roadstar
AUDIO-VIDEO

Service Manual

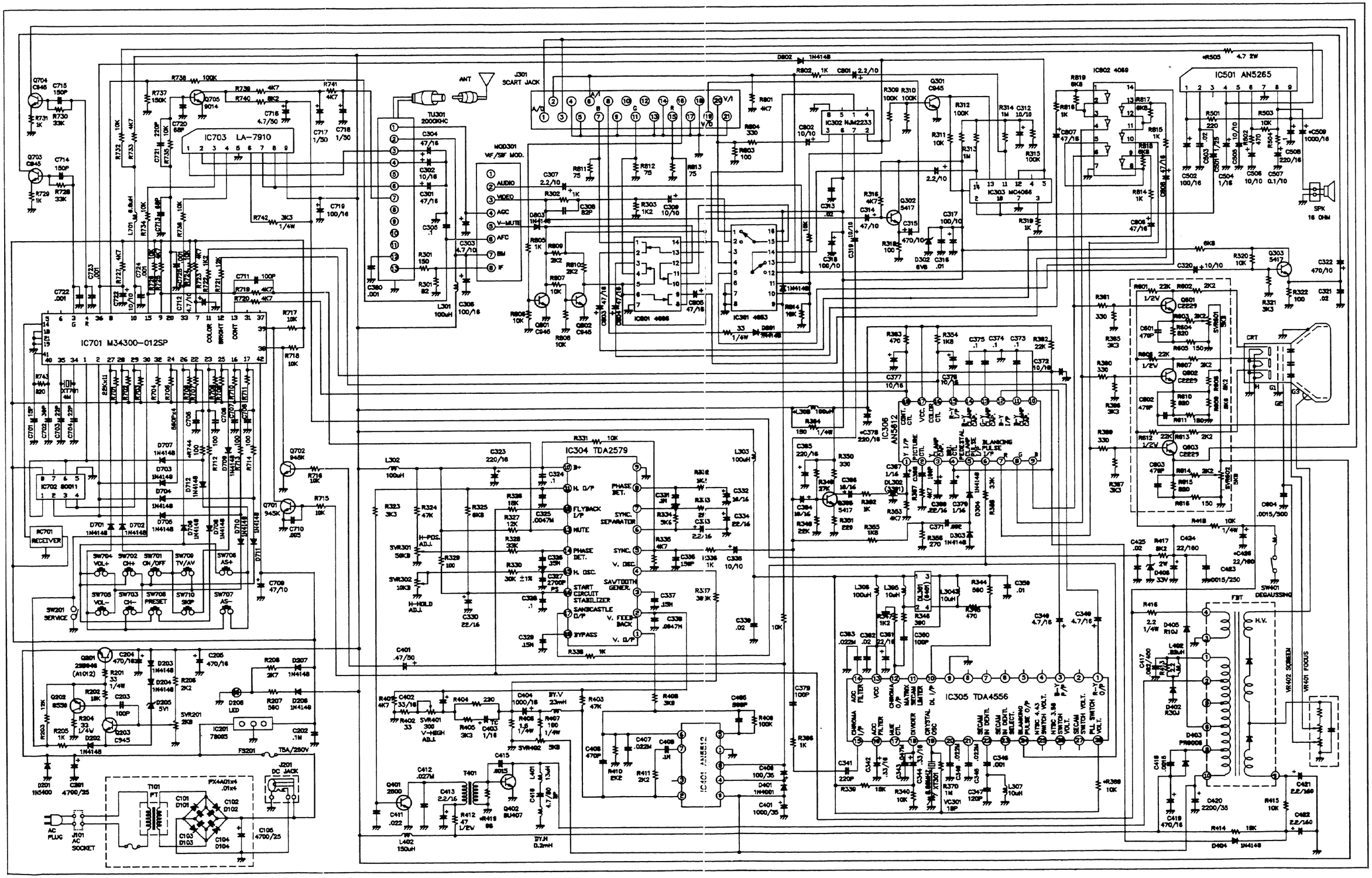
10 INCH COLOUR TV + MONITOR
CTV-552X
CTV-552XL
WITH FRONT A/V INPUT



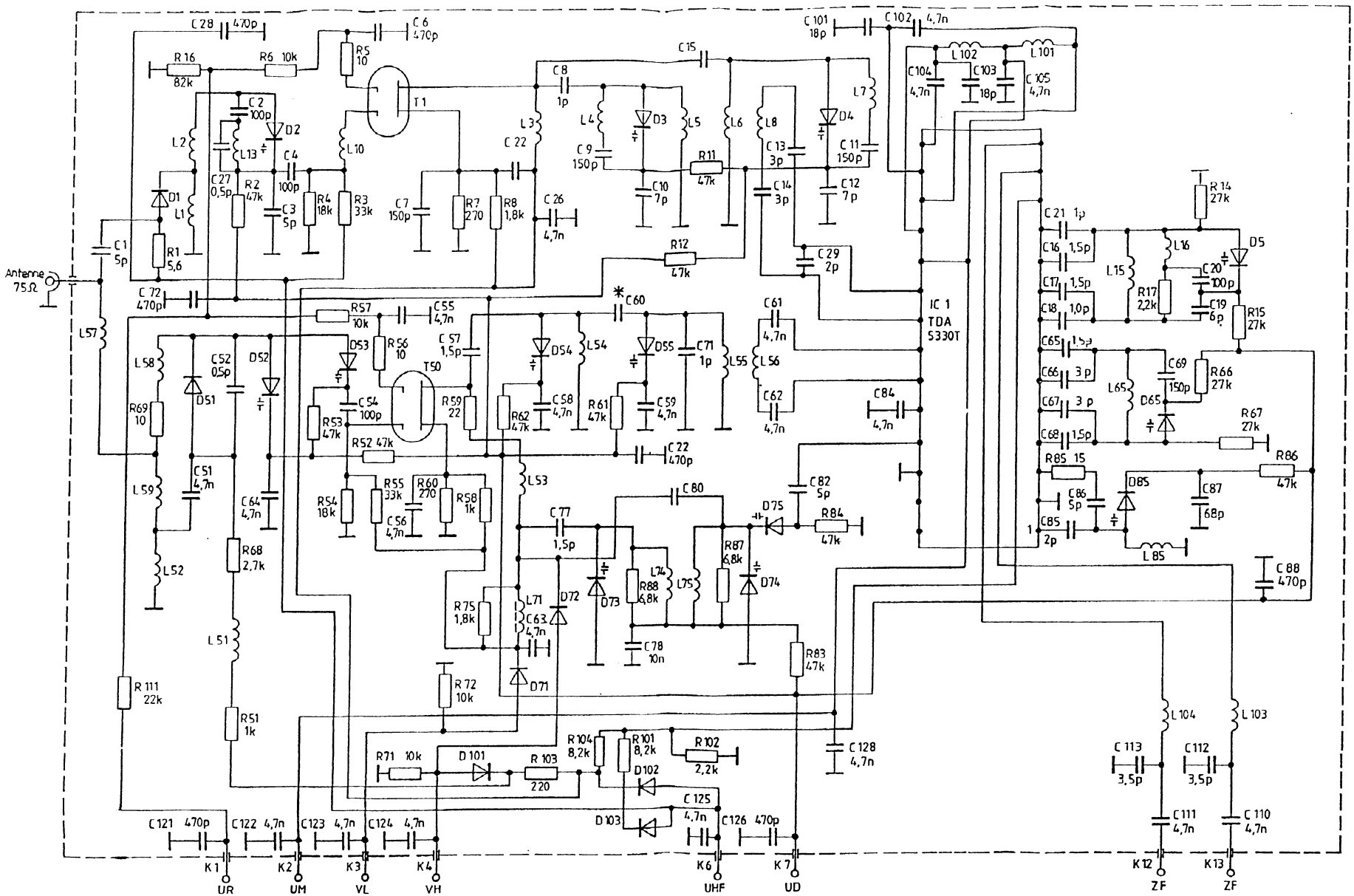
BLOCK DIAGRAM WITH SCART SOCKET



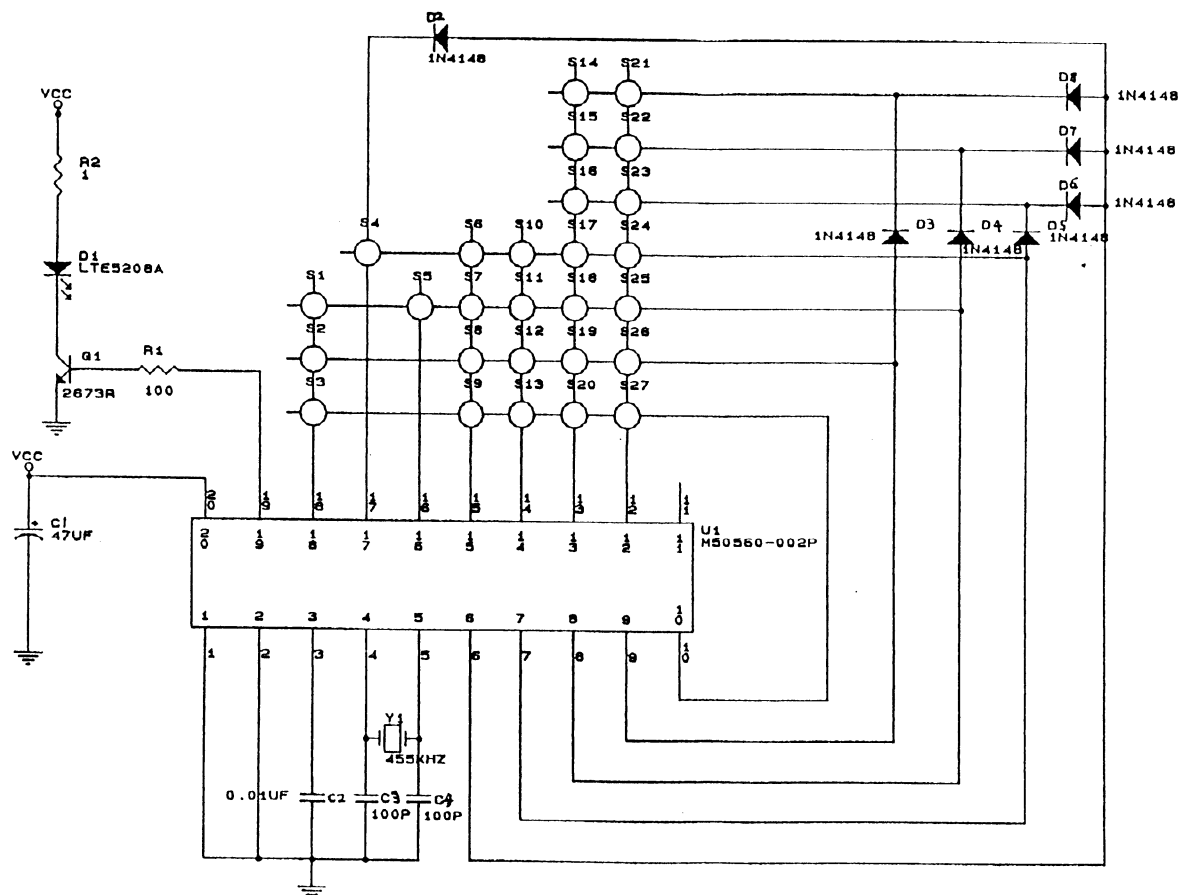
TV SCHEMATIC DIAGRAM



TUNER DIAGRAM

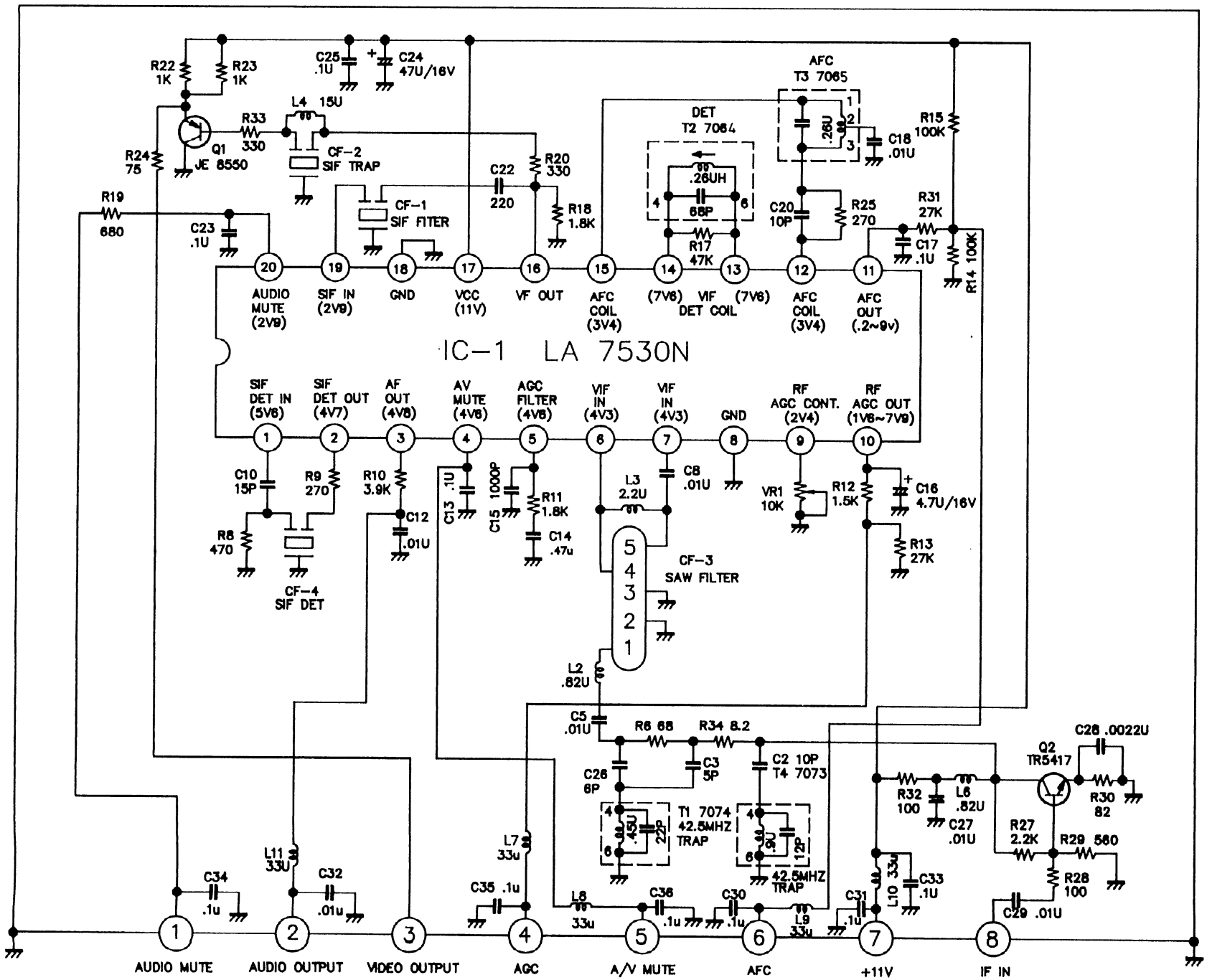


REMOTE CONTROL SCHEMATIC DIAGRAM

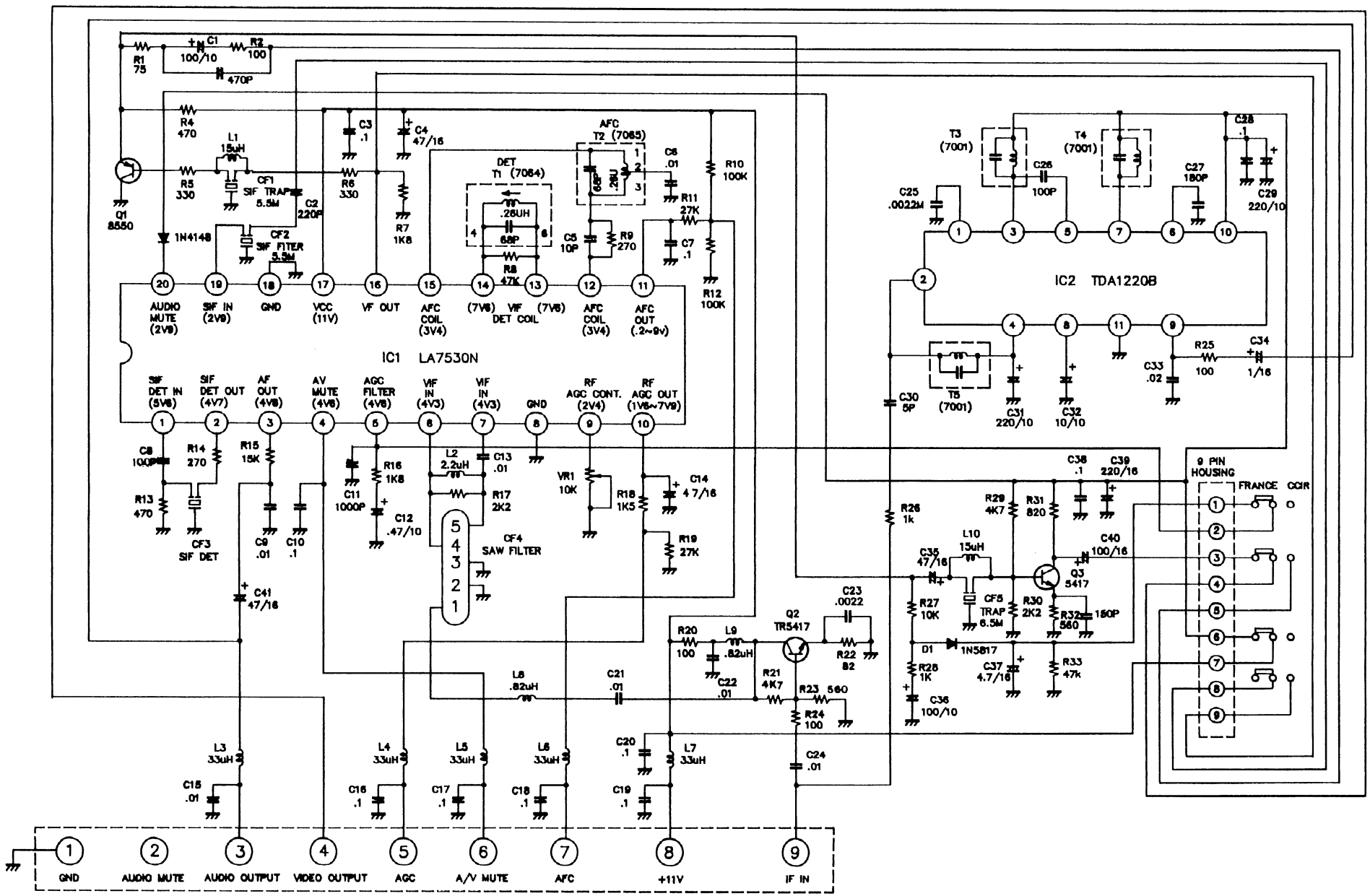


NO	FUNCTION
1	CH UP
2	CH DOWN
3	VOL UP
4	VOL DOWN
5	MUTE
6	SLEEP
7	TV/AV
8	ON/OFF
9	RECALL
10	1
11	2
12	3
13	4
14	MIN
15	HOUR
16	AUTO/ON
17	5
18	6
19	7
20	8
21	ANA (-)
22	ANA (+)
23	ANA SEL
24	9
25	10
26	11
27	12

VIF DET. MODULE OF CTV 552XL



VIF DET. MODULE OF CTV 552XL



ELECTRICAL SPECIFICATION OF CTV 552X
552XL

OUTPUT:50mW DATE:
SUPPLY VOLTAGE:AC 230V LOAD: 16 OHM TESTER:
GERERAL INFORMATION:TV 75 OHM INPUT ANT. SIFE VOLTAGE 0 dB=1uV

Description	Unit	Spec.	
		Nominal	Limit
TV			
Tuning Range VHF Low Ch.2-4	MHz	45-65	48-63
VHF High.Ch.5-12	MHz	170-230	175-225
UHF Ch.21-69	MHz	468-860	471-856
CABLE BAND S1->S20	MHz	103-304	105-295
HYPER BAND S21->S41	MHz	300-468	304-464
VHF Maximum Sensitivity (10Vp-p)	dB	26	32
UHF Maximum Sensitivity (10Vp-p)	dB	30	36
Picture IF Rejection Ratio Ch.2-4	dB	50	40
Ch.5-12	dB	60	50
Ch.21-69	dB	50	40
Picture Image Rejection Ratio Ch.2-4	dB	50	40
Ch.5-12	dB	60	50
Ch.21-69	dB	40	30
Video Resolution	Lines	220	200
Contrast Control Range	dB	5	3
Sound Response 6 kHz (400Hz 0dB)	dB	-12	-12 ± 6
Maximum Audio Output	W	1	0.7
Horizontal Non-Linearity	%	15	25

REMOTE CONTROL SPECIFICATION

1	DISTANCE
	DIRECTIVITY 5 (MIN)
	VERTICAL AND HORIZONTAL
	DIRECTION 30° FROM LIGHT AXIS 3M (MIN)
2	TRANSMITTER
	OPERATING VOLTAGE 3V DC
	OPERATING CURRENT 80mA ± 20mA
	PEAK CURRENT 500mA-800mA

ALIGNMENT PROCEDURE

REGULATOR ADJUSTMENT

1.CONNECT TV UNIT TO DC 12V-14V POWER SUPPLY & TEST PATTERN GENERATOR.

2.CONNECT A DC DIGITAL VOLTMETER OR OTHER PRECISION ACCURARY VOLTMETER TO THE COLLECTOR OF THE REQULATOR OUTPUT TRANSISTOR Q201 (OR ANY 10.8 VOLT POINT OR TP1).

3.ADJUST HORIZONTAL HOLD SVR302 UNTIL THE PICTURE HOLD IN SYNC.

4.VERTICAL HIGHTNESS ALIGNMENT
ADJUST THE VERTICAL HIGHTNESS SVR401 ENABLE THE CIRCLE OF PICTURE APPROACH TO CIRCLE.

5.HORIZONTALL POSITION ALIGNMENT
ADJUST HORIZONTAL POSITION SVR301, LET THE SQUARE SIGNAL IN THE CENTER OF THE SCREEN.

6.RF AGC ALIGNMENT
ADJUST VIF MODULE AGC CONTROL VR1 AT INPUT SIGNAL INTENSITY 50dB, THE SCREEN COULD LOOKING CLEAR AND 80dB THE SCREEN DON'T INFLECT.

7.WHITE BALANCE ALIGNMENT
ADJUST THE SVR602, SVR601, AT CENTER POSITION, ADJUST SCREEN VR402, LET THE SCREEN WILL BE LITTLE BRIGHTNESS. ADJUST SVR602 LET THE SCREEN TO BE YELLOW, AND THEN ADJUST SVR601 LET THE SCREEN APPROACH TO WHITE.

8.FOCUS ADJUSTMENT
ADJUST FOCUS VR401, LET THE STRIP LINE ON THE SCREEN TO BE CLEAR.

GENERAL ALIGNMENT INSTRUCTIONS

1. VIDEO IF ALIGNMENT

TEST EQUIPMENT CONNECTION (SEE FIGURE)

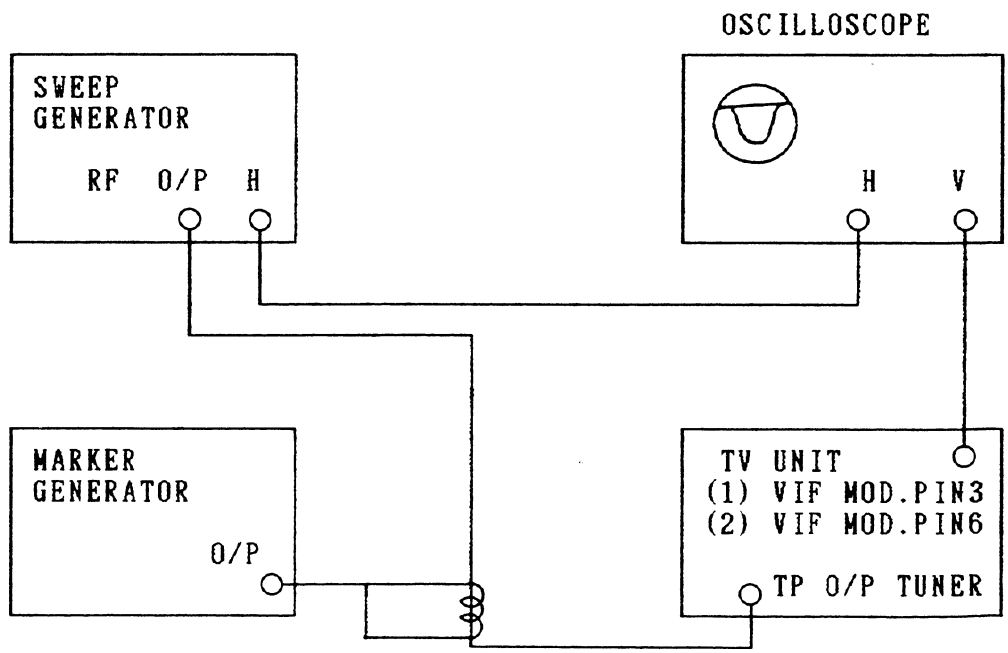
OSCILLOSCOPE: CONNECT TO (1) VIF MOD. PIN3
(2) VIF MOD. PIN6

SWEEP GENERATOR: CONNECT THROUGH A MATCHING PAD TO TEST POINT (T.P) OF THE TUNER.

MARKER GENERATOR: COUPLE LOOSELY TO THE OUTPUT CABLE OF SWEEP GENERATOR.

DC SUPPLY: ADD DC +12V AT DC JACK.

ADJUST SWEEP GENERATOR TO LOWEST SIGNAL LEVEL CONSISTENT WITH USABLE			
STEP	SWEEP FREQUENCY	MARKER FREQUENCY	REMARK
(1) ADJUST VIF MOD. T2 FOR MARKER POINT MAXIMUM.	30-50 MHZ FOR NTSC 65MHZ FOR JAPAN). 25-45MHZ FOR CCIR.	SYSTEM B,G,H, 36.7MHZ SYSTEM I 37.3 MHZ, SYSTEM M,N 44MHZ (57MHZ FOR JAPAN) (34.7MHZ FOR AUSTRARIA SYSTEM)	PARENTHESIS FOR EXCE-PTION.
(2) ADJUST VIF MOD. T3 FOR MARKER POINT CENTER	30-50 MHZ FOR NTSC 65HZ FOR JAPAN). 25-45MHZ FOR CCIR.	SYSTEM B,C,G,H, 36.7MHZ SYSTEM I 37.3 MHZ, SYSTEM M,N 44MHZ (57MHZ FOR JAPAN) (34.7MHZ FOR AUSTRARIA SYSTEM)	IN THE PARENTHESIS FOR AFC CORRECTION



VIDEO IF ALIGNMENT CONNECTING FIGURE

2. SOUND IF ALIGNMENT

TEST EQUIPMENT CONNECTION

SIGNAL GENERATOR: CONNECT TO TEST POINT (T.P) OF THE TUNER THROUGH A MATCHING PAD.

OSCILLOSCOPE: CONNECT TO THE VIF MOD. PIN2.

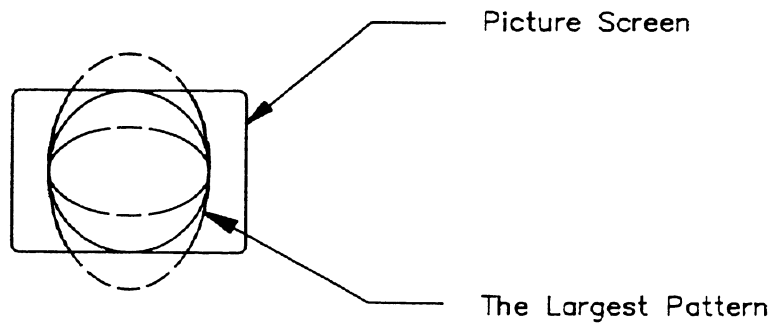
ALIGNMENT PROCEDURE

STEP	GENERATOR	SCOPE	ADJUST	REMARKS
ADJUST VIF MOD. T1	SYSTEM B,G,H 33.4MHZ,SYSTEM M,N 41.25MHZ, SYSTEM I 33.5MHZ SYSTEM D,K, 32.4MHZ @1KHZ FM MOD DEVIATION 25KHZ 80DB OUTPUT.	CONNECT TO THE VIF MOD. PIN2	T1	ADJUST T1 SO THE SIGNAL OF 1 KHZ ON SCOPE TO BE MAX.

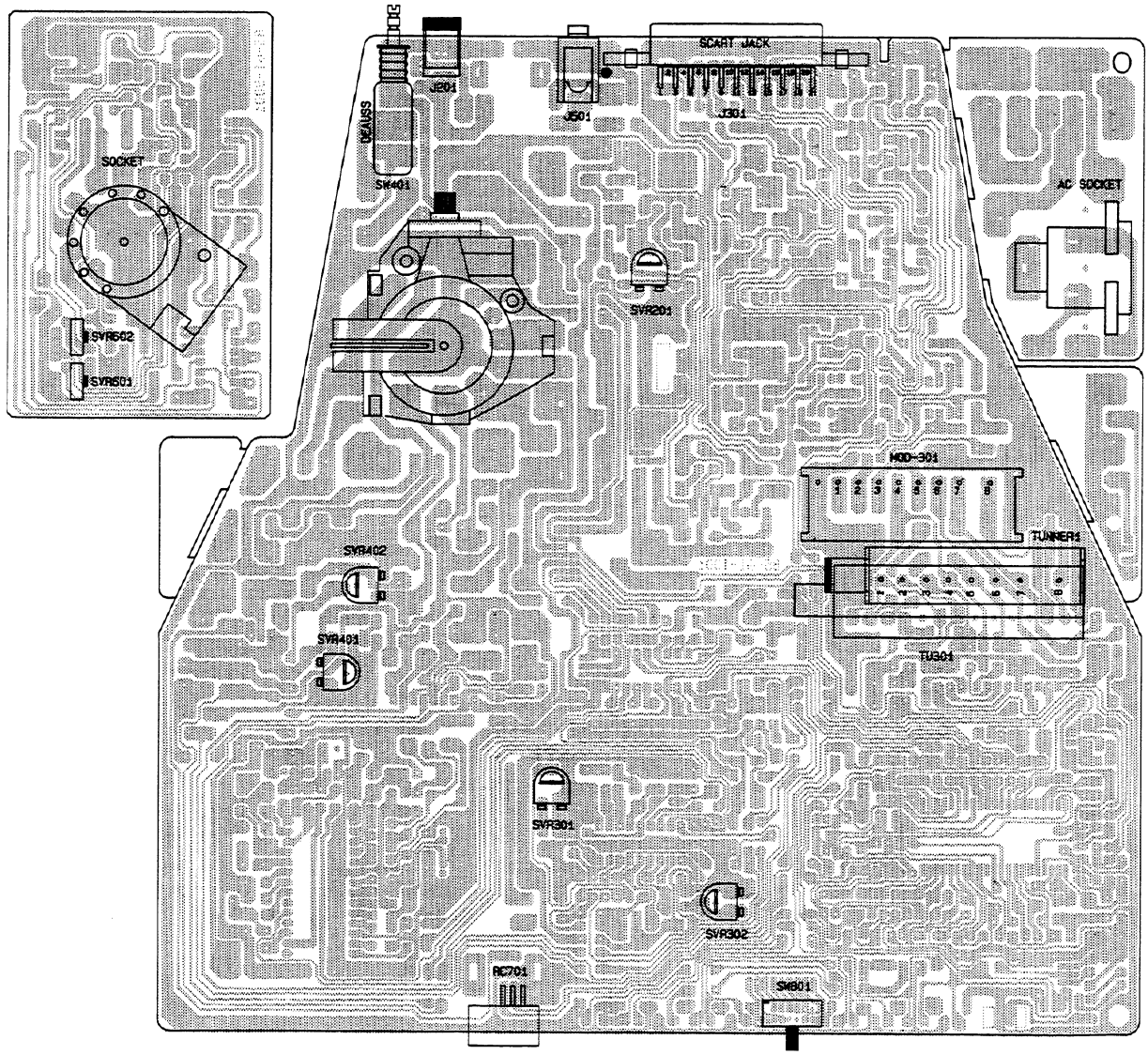
VERTICAL DEFLECTION ALIGNMENT

(1) TUNE THE RECEIVER IN A TEST PATTERN.

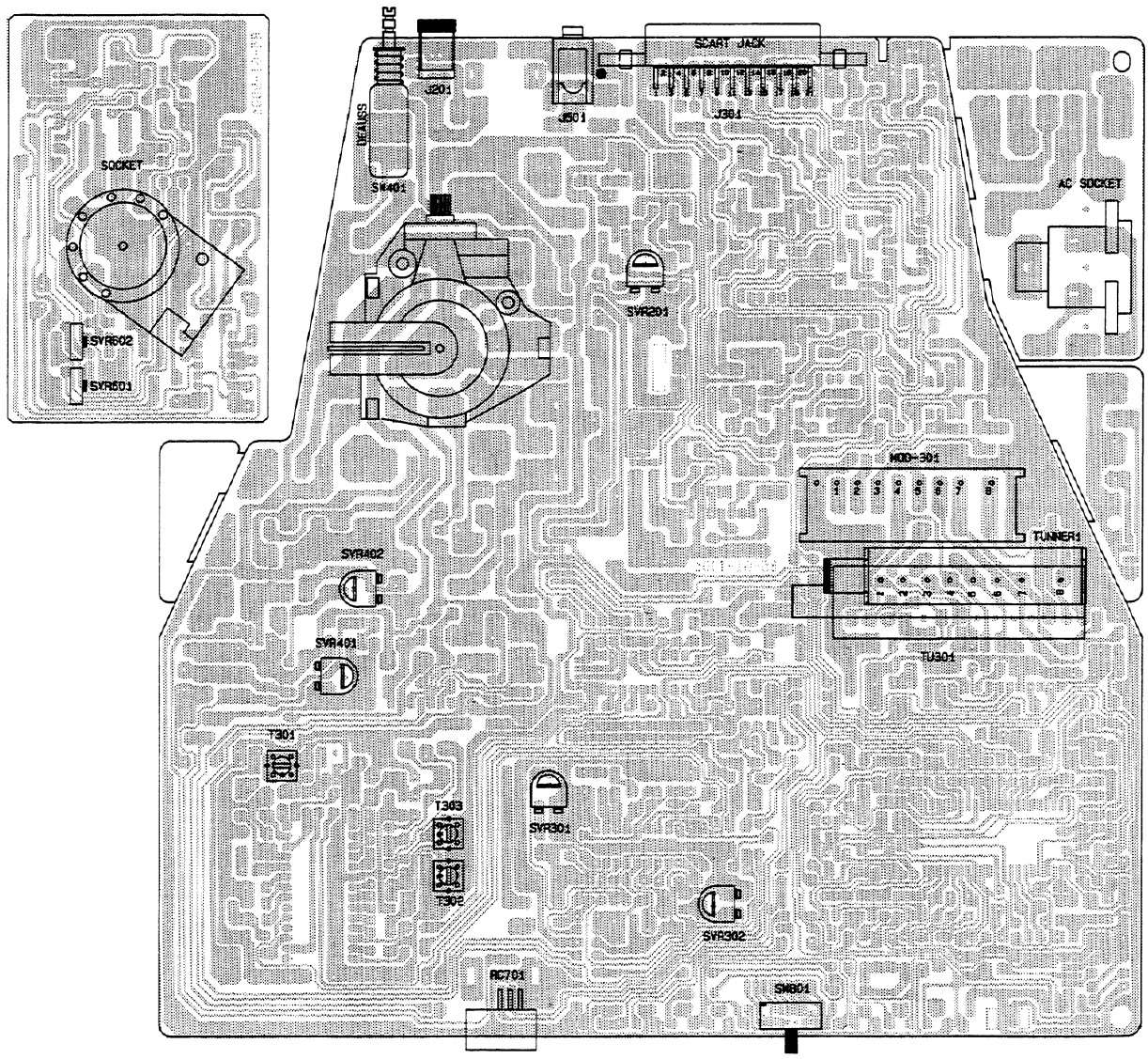
(2) ADJUST V-SIZE CONTROL SV401 TO MAKE THE INSIDE OF THE LARGEST CIRCLE OF TEST PATTERN REACHES NEAR ROUND PATTERN. (SEE THE FIGURE)



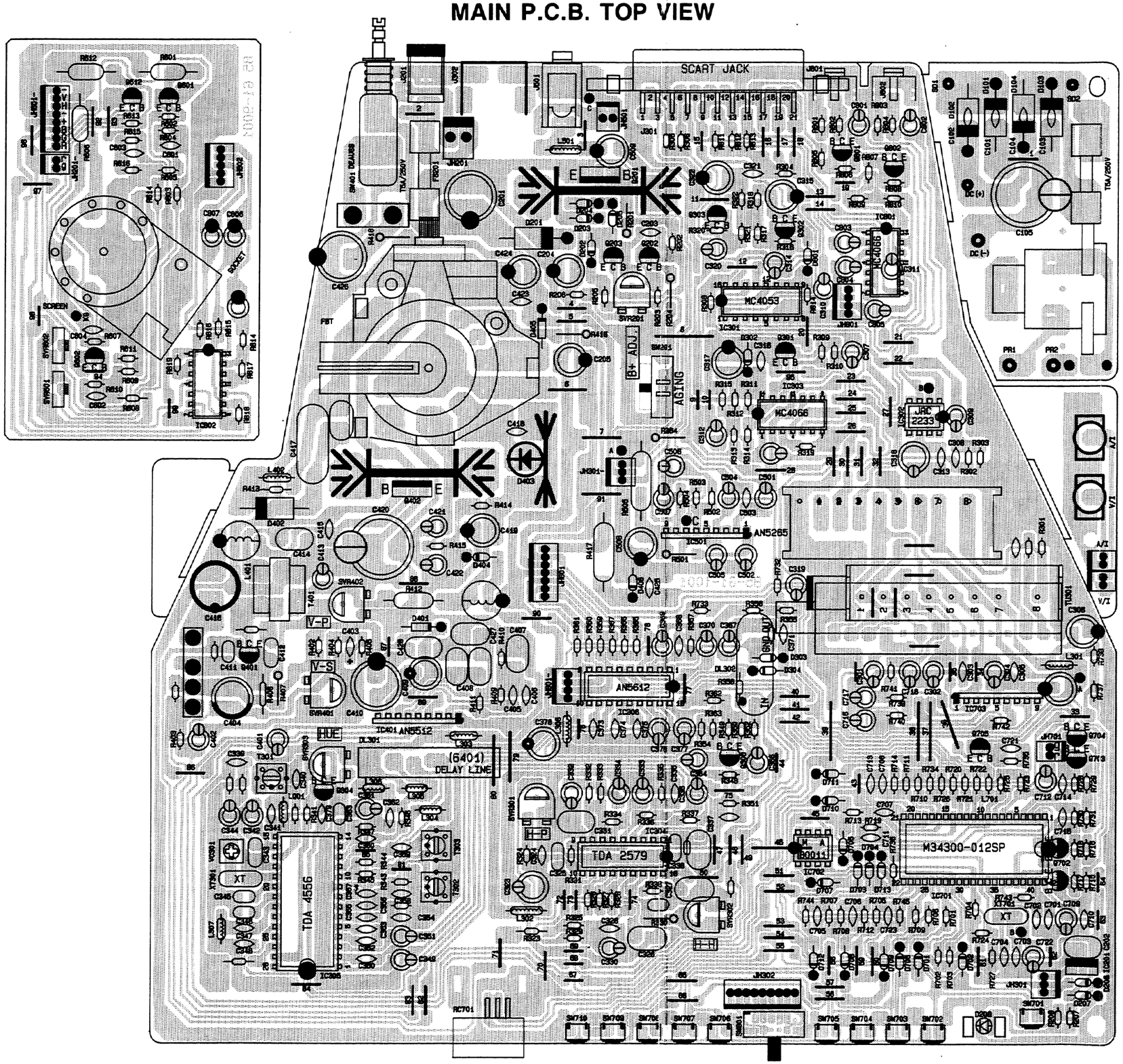
CHASSIS ALIGNMENT POINTS OF CTV 552X



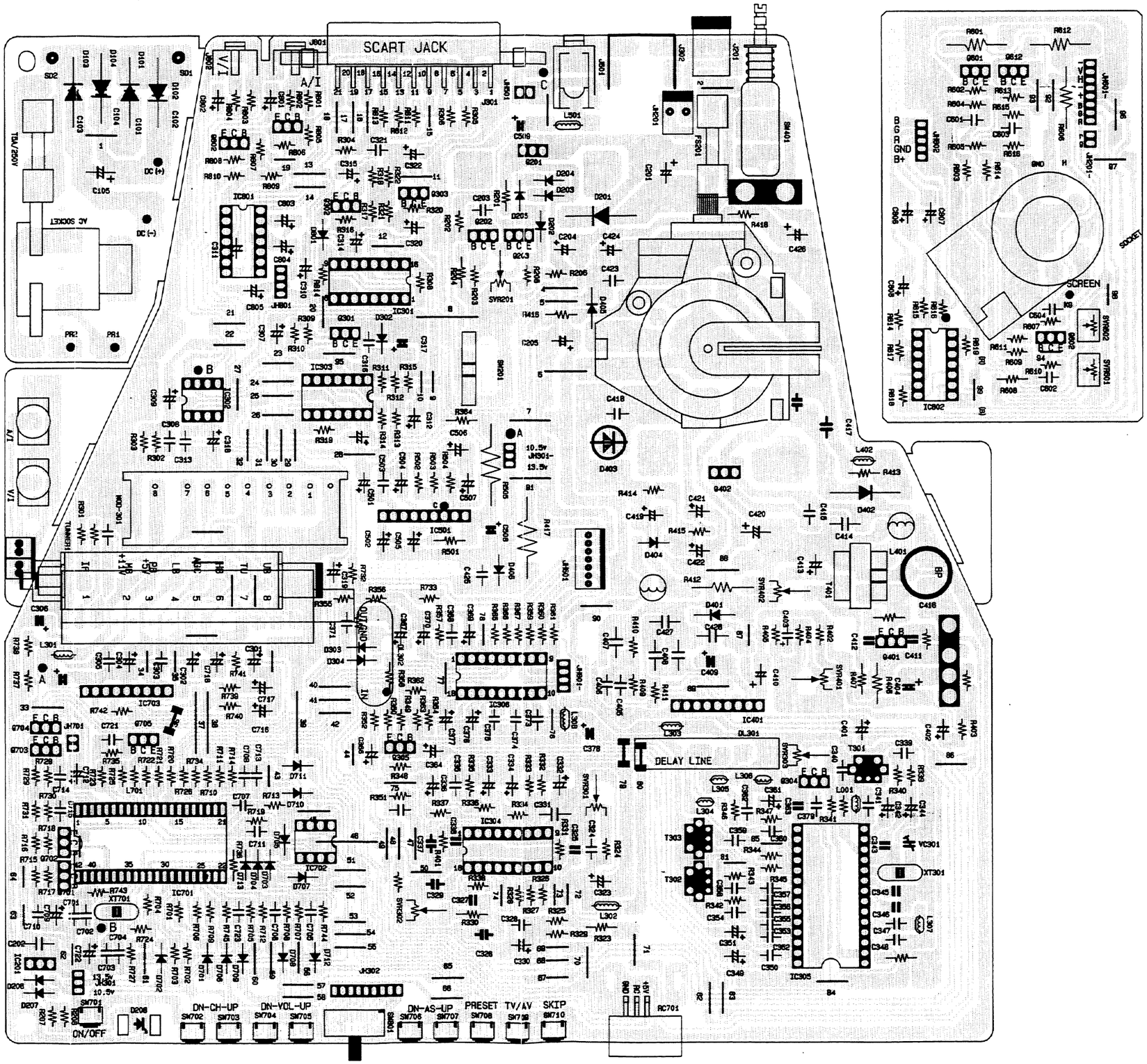
CHASSIS ALIGNMENT POINTS OF CTV 552XL



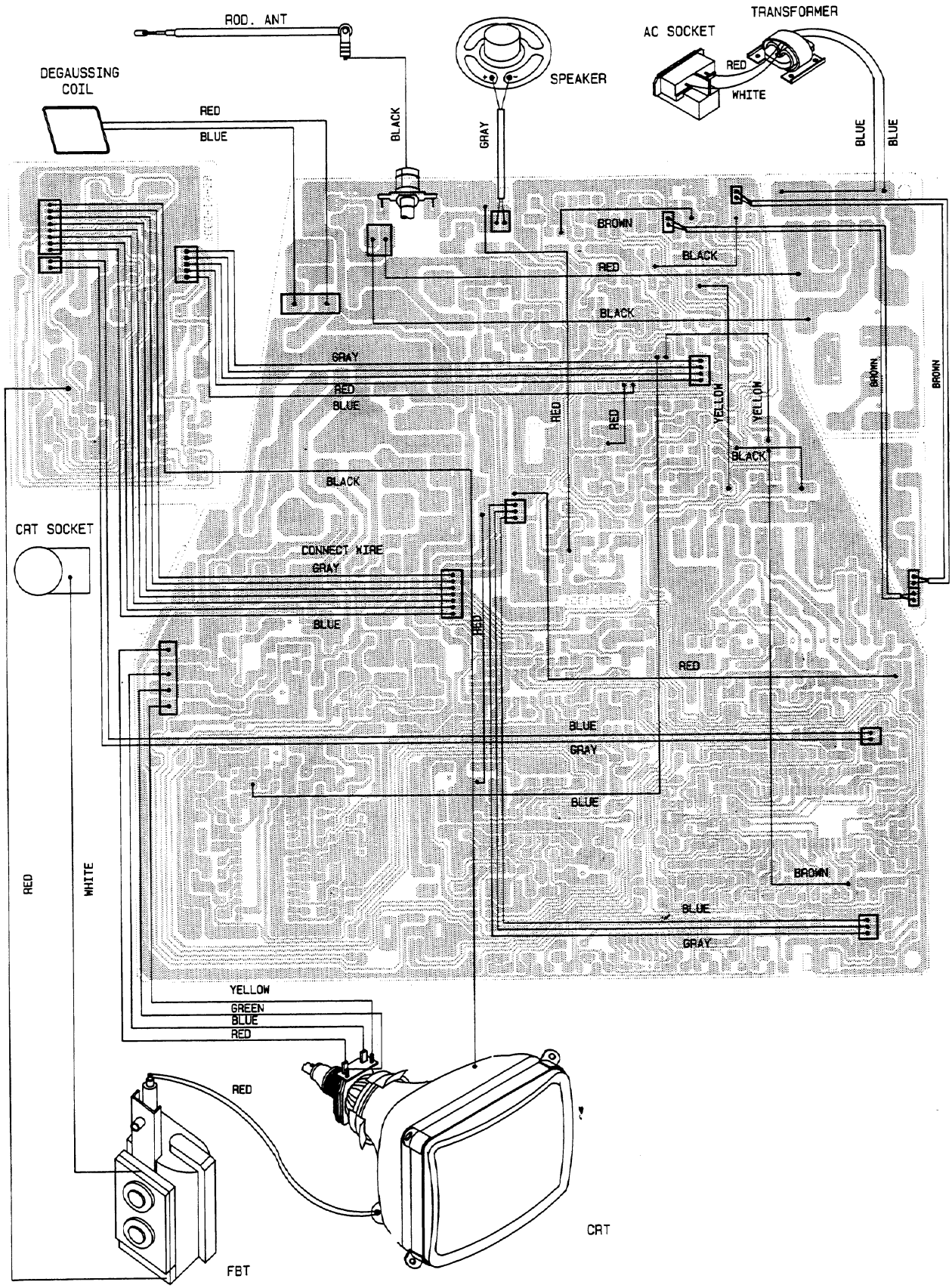
MAIN P.C.B. TOP VIEW



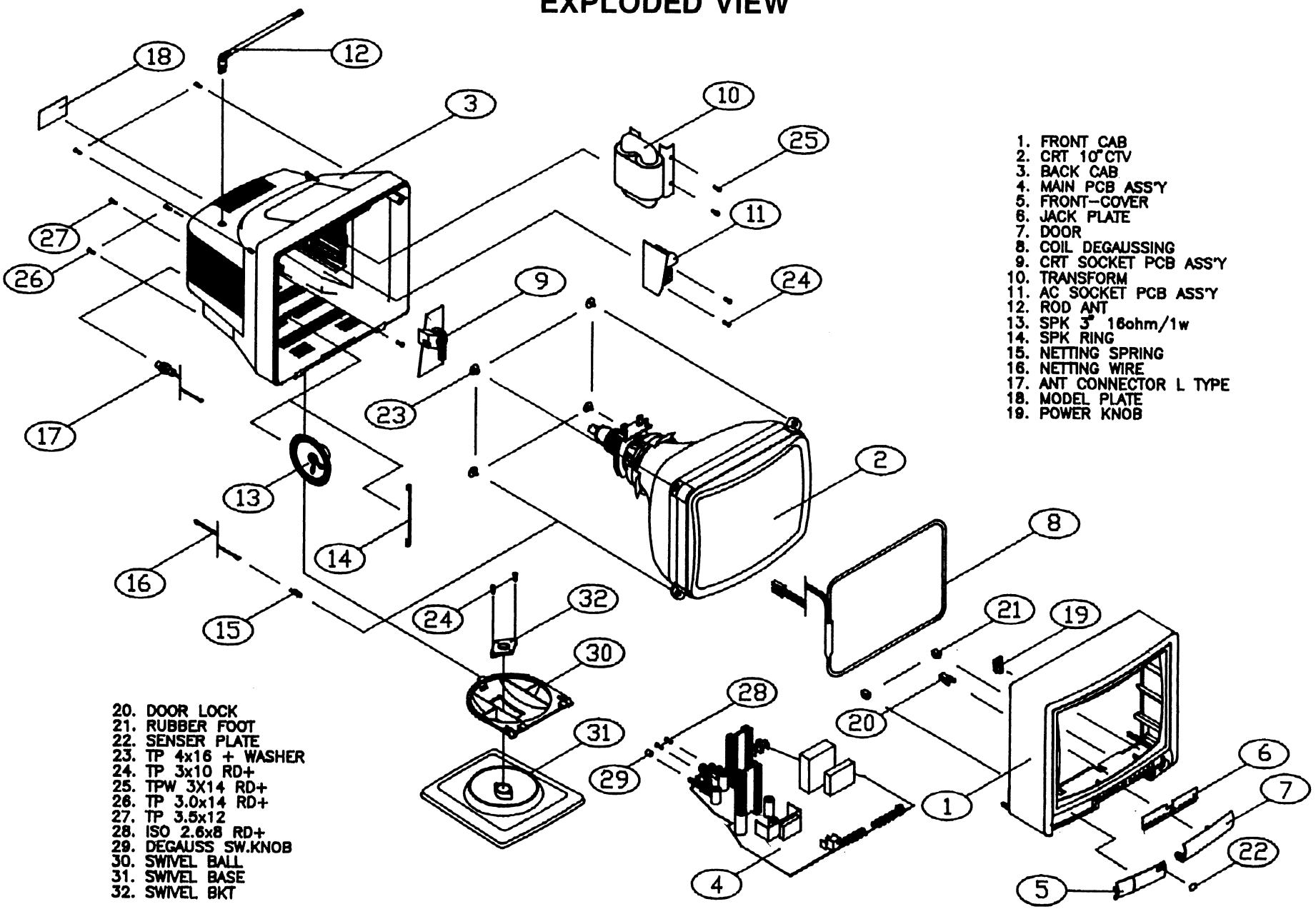
MAIN P.C.B BOTTOM VIEW



WIRING DIAGRAM OF CTV 552X
CTV 552XL



EXPLODED VIEW



1. FRONT CAB
2. CRT 10"CTV
3. BACK CAB
4. MAIN PCB ASS'Y
5. FRONT-COVER
6. JACK PLATE
7. DOOR
8. COIL DEGAUSSING
9. CRT SOCKET PCB ASS'Y
10. TRANSFORM
11. AC SOCKET PCB ASS'Y
12. ROD ANT
13. SPK 3" 16ohm/1w
14. SPK RING
15. NETTING SPRING
16. NETTING WIRE
17. ANT CONNECTOR L TYPE
18. MODEL PLATE
19. POWER KNOB

20. DOOR LOCK
21. RUBBER FOOT
22. SENSER PLATE
23. TP 4x16 + WASHER
24. TP 3x10 RD+
25. TPW 3X14 RD+
26. TP 3.0x14 RD+
27. TP 3.5x12
28. ISO 2.6x8 RD+
29. DEGAUSS SW.KNOB
30. SWIVEL BALL
31. SWIVEL BASE
32. SWIVEL BKT

PARTS LIST
FINAL ASSEMBLY

CTV-552X
CTV-552XL

MFR'S PART NO.	DESCRIPTION	Q'TY
MISCELLANEOUS		
11-47-1002	CRT 10" CTV	1
19-70-0004	DEGAUSSING COIL	1
23-04-0009	SOCKET COVER	1
24-20-2021	WIRE HOUSING, 2P	1
24-10-0239	ANTENNA CONNECTOR	1
24-55-2014	WIRE HOUSING, 2P	1
26-21-9201	ROD ANTENNA	1
37-35-1091	SPEAKER 3" 16 OHM, 1W	1
38-10-0202	AC CORD	1
38-93-0203	CAR CORD 5A	1
39-35-0352B	POWER TRANSFORMER	1
42-01-0008	REMOTE CONTROL	1
55-02-8002	CRT SPRING	1
55-02-9013	SPEAKER SPRING	1
58-21-1061	WASHER 2.2D	1
58-35-1041	RUBBER PLATE	1
59-02-4025	SPEAKER SPONGE	1
64-01-6006	RUBBER FOOT	2
64-04-6009	RUBBER FOOT	4
METAL PARTS		
69-21-3008	SCREW TAPPING 3x8 RD+, SMALL DOOR	2
69-21-3010	SCREW TAPPING 3x10 RD+, AC SOCKET	4
69-21-3014	SCREW TAPPING 3x14 RD+, F/B CAB., ROD ANT.	5
69-21-3512	SCREW TAPPING 3.5x12 RD+,	1
69-21-4016	SCREW TAPPING 4x16 RD+, FBT	1
69-22-3014	SCREW TAPPING 3x14 RD+,	2
69-41-2606	SCREW MTP 2.6x6 RD+,	1
69-70-3014	SCREW TPW 3x14 RD+, PT	2
69-72-4016	SCREW TPW 4x16	4
87-A8-0901	WIRE CLAMP	1
PLASTIC PARTS		
88-87-1401	DEGAUSSING SWITCH KNOB	1
88-01-0602	DOOR LOCK	1
88-C7-0404	SWIVEL BALL	1
88-C7-0504	SWIVEL BASE	1
88-C7-0604	SWIVEL BRACKET	1
88-G1-0101	FRONT CABINET	1
88-G1-0201	BACK CABINET	1
88-G1-0401	DOOR	1
88-G1-0501	POWER KNOV	1
88-G1-0801	FRONT COVER	1
88-G1-0901	SMALL DOOR	1
APPEARANCES		
50-G1-1001B	MODEL PLATE, ROADSTAR, FOR CTV-552X	1
50-G1-1003A	MODEL PLATE, ROADSTAR, FOR CTV-552XL	1
51-E9-0014	REMOTE CONTROL PLATE	1
51-G1-0101	FUNCTION PLATE FOR CTV-552X	1
51-G1-0102	FUNCTION PLATE FOR CTV-552XL	1
51-G1-0201	SENSOR PLATE	1
90-E5-4001	SERIAL LABEL	2
90-G1-0003A	LABEL FOR CTV-552XL	1
90-G1-0003C	SCREEN LABEL FOR CTV-552XL	1
90-G1-1001C	SCREEN LABEL FOR CTV-552X	1
90-G1-2001A	LABEL "X" FOR CTV-552X	1
90-G1-1003A	LABEL "XL" FOR CTV-552XL	1
91-78-2438	WARRANT CARD	1
91-G1-1001E	INSTRUCTION BOOK FOR CTV-552X	1
91-G1-2003	INSTRUCTION BOOK FOR CTV-552XL	1
94-G1-0001A	CARTON FOR CTV-552X	1
94-G1-0003A	CARTON FOR CTV-552XL	1
96-G1-0001	POLYFOAM	1

PARTS LIST
MAIN PCB ASSEMBLY

CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
PCB			
85-G1-1002	MAIN PCB (BLANK)		1
SEMICONDUCTORS			
10-05-1005	IC AN78N05 3 PIN	IC201	1
10-10-1017	IC M34300-012SP 42 PIN	IC701	1
10-11-1005	IC M6M 80011P 8 PIN	IC702	1
10-15-1011	IC M4053BP 16 PIN	IC301	1
10-15-1012	IC MC4066B 14 PIN	IC303,801	2
10-15-1013	IC NJM2233AD 8 PIN	IC302	1
10-20-0103	IC AN5512 9 PIN	IC401	1
10-20-0112	IC AN5612 18 PIN	IC306	1
10-20-0115	IC FDA4556 28 PIN	IC305	1
10-20-0403	IC TDA2579A 18 PIN	IC304	1
10-20-1009	IC AN5265 9 PIN	IC501	1
10-20-1012	IC LA7910 9 PIN	IC703	1
12-01-1002	TRANSISTOR 5417F (NPN)	Q302,303,305	3
12-02-1002	TRANSISTOR 9014D (NPN)	Q705	1
12-02-1003	TRANSISTOR 2SC945 (NPN)	Q203,301,701,702,703, 704,801,802	8
12-03-2031	TRANSISTOR 8550 (PNP)	Q202	1
12-03-2033	TRANSISTOR 2SA1012 (PNP)	Q201	1
12-04-1002	TRANSISTOR D788CD/2SC2500	Q401	1
12-04-1013	TRANSISTOR BU407 (NPN)	Q402	1
12-05-5009	TRANSISTOR X'TAL 8.86MHz	X'TAL 301	1
12-05-5012	TRANSISTOR X'TAL 4.0 MHz	X'TAL 701	1
13-03-1000	DIODE IN4148/MA161	D206,207,IC4053#9,X,X	5
13-05-1000	DIODE IN4001 1A 50V	D401	1
13-05-1003	DIODE IN5400 3A 50V	D201	1
13-05-1008	DIODE PR1005 1A	D405	1
13-05-1011	DIODE PR3005 3A 600V	D402	1
13-05-1025	DIODE PR6005 6A 600V	D403	1
13-05-1045	DIODE PX4A01 4A 50V	D101,102,103,104	4
13-06-1330	DIODE ZENER 33V	D406	1
13-06-1519	DIODE ZENER 5.1V	D205	1
13-06-1689	DIODE ZENER 6.8V	D302	1
13-23-1000	DIODE IN4148	D202,203,204,301,303, 304,404,701,702,703, 704,705,706,707,708, 709,710,711,712,713, 801	21
CAPACITORS			
17-05-2479	ELECTROLYTIC 4.7uF 50V±10%	C416	1
17-15-1101	CERAMIC 100pF 50V ±5%	C379	1
17-15-1180	CERAMIC 18 pF 50V ±5%	VC301	1
17-15-4102	CERAMIC 1000 pF 50V +80%-20%	CPU3,4	2
17-18-4152	CERAMIC .0015uF 500V +80%-20%	CPU10,20; C415,418,423 604	6

PARTS LIST
MAIN PCB ASSEMBLY CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
CAPACITORS			
17-21-3471	ELECTROLYTIC 470 uF 10V ±20%	C315,322	2
17-22-3102	ELECTROLYTIC 1000uF 16V±20%	C404,508	2
17-22-3221	ELECTROLYTIC 220uF 16V ±20%	C378	1
17-22-3471	ELECTROLYTIC 470uF 16V ±20%	C204,205,419	3
17-23-3222	ELECTROLYTIC 2200uF 25V ±20%	C201	1
17-23-3682	ELECTROLYTIC 6800uF 25V ±20%	C105	1
17-24-3101	ELECTROLYTIC 100 uF 35V ±20%	C409	1
17-24-3102	ELECTROLYTIC 1000uF 35V ±20%	C410	1
17-24-3222	ELECTROLYTIC 2200uF 35V ±20%	C420	1
17-26-3220	ELECTROLYTIC 22 uF 160V ±20%	C424,426	2
17-26-3229	ELECTROLYTIC 2.2uF 160V ±20%	C421,422	2
17-35-2104	MYLAR .1uF 50V ±10%	C331,408,427,428	4
17-35-2154	MYLAR .15uF 50V ±10%	C326,329,337	3
17-35-2223	MYLAR .022uF 50V ±10%	C407	1
17-45-2272	PS 2700 pF ±10%	C327	1
17-52-2109	TANTALUM 1uF 16V ±10%	C403	1
17-67-2332	DPPN .0033uF 250V ±10%	C417\\	1
17-68-2823	DPPN .082uF 400V ±10%	C417	1
17-A5-4104	MCC 0.1 uF 50V +80%-20%	C202	1
27-15-1101	CERAMIC 100pF 50V ±5%	C203,360,368,379,711	5
27-15-1150	CERAMIC 15pF 50V ±5%	C701	1
27-15-1151	CERAMIC 150pF 50V ±5%	C335,336,714,715	4
27-15-1220	CERAMIC 22 pF 50V ±5%	C703,704	2
27-15-1390	CERAMIC 39 pF 50V ±5%	C702	1
27-15-1680	CERAMIC 68 pF 50V ±5%	C713,720	2
27-15-1820	CERAMIC 82 pF 50V ±5%	C308	1
27-15-2121	CERAMIC 120pF 50V ±10%	C348	1
27-15-2221	CERAMIC 220pF 50V ±10%	C341,721	2
27-15-2471	CERAMIC 470pF 50V ±10%	C406	1
27-15-2561	CERAMIC 560pF 50V ±10%	C405,705,706,707,708, 723	6
27-15-4102	CERAMIC .001uF 50V +80%-20%	C347	1
27-15-4103	CERAMIC .01uF 50V +80%-20%	C101,102,103,104,359, X	6
27-15-4104	CERAMIC 0.1uF 50V +80%-20%	C305,324,328,373,374, 375,414	7
27-15-4202	CERAMIC .002uF 50V +80%-20%	C371	1
27-15-4203	CERAMIC .02uF 50V +80%-20%	C313,316,321,339,362, 425,503	7
27-15-4502	CERAMIC .005uF 50V +80%-20%	C710	1
27-22-3101	ELECTROLYTIC 100uF 16V ±20%	C306,317,318,502,719	5
27-22-3221	ELECTROLYTIC 220uF 16V ±20%	C323,365,378	3
27-22-3330	ELECTROLYTIC 33 uF 16V ±20%	C402	1
22-22-3470	ELECTROLYTIC 47uF 16V ±20%	C301,304,314,709,803, 804,805	7
27-23-3100	ELECTROLYTIC 10uF 25V ±20%	C302,309,312,319,320 332,336,364,366,370,376 377,505,506,722,802	16
27-23-3220	ELECTROLYTIC 22uF 25V ±20%	C330,334,361	3
27-23-3228	ELECTROLYTIC .22uF 25V ±20%	C369,507	2

PARTS LIST
MAIN PCB ASSEMBLY

CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
CAPACITORS			
27-23-3229	ELECTROLYTIC 2.2uF 25V ±20%	C307,333,413,801	4
27-23-3338	ELECTROLYTIC .33uF 25V ±20%	C342,344	2
27-23-3478	ELECTROLYTIC .47uF 25V ±20%	C401	1
27-25-3109	ELECTROLYTIC 1uF 50V ±20%	C367,501,504,717,718	5
27-25-3479	ELECTROLYTIC 4.7uF 50V ±20%	C303,349,351,712,716	5
27-35-2223	MYLAR .022uF 50V ±10%	C345,346,363,411	4
27-35-2273	MYLAR .027uF 50V ±10%	C412	1
27-35-2472	MYLAR .0047uF 50V ±10%	C325,338	2
27-35-2473	MYLAR .047uF 50V ±10%	C343	1
CHOKES			
19-40-2100	CHOKE 10uH	L304,305,307	3
19-40-2689	CHOKE 6.8uH	L701	1
19-40-2828	CHOKE .82uH	L402	1
19-40-3101	CHOKE 100uH	L301,302,303,306,308	5
19-40-3151	CHOKE 150uH	LX	1
19-43-1130	LINEAR COIL 13uH	L401	1
19-45-3391	DELAY LINE 330uS	DL302	1
19-45-6401	DELAY LINE 64uS	DL301	1
JACKS			
23-01-0004	FUSE HOLER		2
23-03-3502	MICROPHONE JACK 3.5D		1
23-04-1316	AC SOCKET		1
23-05-5001	DC JACK, 4.5D		1
23-06-0015	RCA JACK,AUDIO		1
23-06-0016	RCA JACK,VIDEO		1
23-06-0028	SOCKET, 21 PIN		1
SWITCHES			
22-12-0115	SWITCH, SLIDE, 1P2T	SW201	1
22-42-0209	SWITCH, PUSH, 2P2T	SW401	1
22-81-0103	SWITCH, TACT	SW701,702,703,704,705 706,707,708,709,710	10
VARIABLE RESISTORS			
21-72-1031	SVR 10KB	SVR302	1
21-72-2021	SVR 2KB	SVR201	1
21-72-3013	SVR 300B	SVR401	1
21-72-5024	SVR 5KB	SVR402	1
21-72-5031	SVR 50KB	SVR301	1
RESISTORS			
16-01-1470	CARBON FILM 47 OHM 1/2W	R412	1

PARTS LIST
MAIN PCB ASSEMBLY

CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-03-1101	CARBON FILM 100 OHM 1/8W	LED	1
16-03-1103	CARBON FILM 100 OHM 1/8W	RX,X	2
16-03-1105	CARBON FILM 1M OHM 1/8W	R370	1
16-07-1479	CARBON FILM 4.7 OHM 2 W	R505	1
16-07-1822	CARBON FILM 8.2kOHM 2 W	R417	1
16-12-1101	CARBON FILM 100 OHM 1/4W	R407	1
16-12-1103	CARBON FILM 10k OHM 1/4W	R418	1
16-12-1151	CARBON FILM 150 OHM 1/4W	R364	1
16-12-1159	CARBON FILM 1.5 OHM 1/4W	R406	1
16-12-1221	CARBON FILM 220 OHM 1/4W	R501	1
16-12-1229	CARBON FILM 2.2 OHM 1/8W	R416	1
16-12-1330	CARBON FILM 33 OHM 1/8W	R201,204	2
16-12-1680	CARBON FILM 68 OHM 1/8W	R(C414)	1
16-23-1272	CARBON FILM 2.7k OHM 1/8W	R208	1
16-23-1561	CARBON FILM 560 OHM 1/8W	R207	1
16-43-7303	CARBON FILM 30k OHM 1/8W	R330	1
16-23-1101	CARBON FILM 100 OHM 1/8W	R318,322,329,712,713, 714,744,745,803	9
16-23-1102	CARBON FILM 1 k OHM 1/8W	R205,206,302,319,336, 338,352,368,729,731, 802,805	12
16-23-1103	CARBON FILM 10k OHM 1/8W	R202,311,320,331,340, 363,369,415,503,715, 716,717,718,724,726, 732,734,735,736,740, 806,807,808,814	24
16-23-1104	CARBON FILM 100k OHM 1/8W	R309,310,312,315,409, 738	6
16-23-1105	CARBON FILM 1M OHM 1/8W	R313,314	2
16-23-1109	CARBON FILM 1 OHM 1/8W	R504	1
16-23-1122	CARBON FILM 1.2k OHM 1/8W	R342,347,722,743	4
16-23-1123	CARBON FILM 12k OHM 1/8W	R203,327,362	3
16-23-1151	CARBON FILM 150 OHM 1/8W	R301	1
16-23-1152	CARBON FILM 1.5k OHM 1/8W	R323	1
16-23-1153	CARBON FILM 15k OHM 1/8W	R339,414,721	4
16-23-1154	CARBON FILM 150k OHM 1/8W	R737	1
16-23-1182	CARBON FILM 1.8k OHM 1/8W	R355	1
16-23-1183	CARBON FILM 18 k OHM 1/8W	R326	1
16-23-1220	CARBON FILM 22 OHM 1/8W	R333	1
16-23-1221	CARBON FILM 180 OHM 1/8W	R351,404	2
16-23-1222	CARBON FILM 2.2k OHM 1/8W	R357,410,411,809,810	5
16-23-1223	CARBON FILM 22k OHM 1/8W	R348,701,702,703,704, 705,706,707,708,709, 710,711	12
16-23-1229	CARBON FILM 2.2 OHM 1/8W	R413	1
16-23-1271	CARBON FILM 270 OHM 1/8W	R356	1
16-23-1272	CARBON FILM 2.7k OHM 1/8W	R354	1
16-23-1273	CARBON FILM 27k OHM 1/8W	R349	1
16-23-1330	CARBON FILM 33 OHM 1/8W	R402,J15	2
16-23-1331	CARBON FILM 330 OHM 1/8W	R350,359,360,361,804	5

PARTS LIST
MAIN PCB ASSEMBLY CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-23-1332	CARBON FILM 3.3k OHM 1/8W	R321,365,366,367,405, 742	6
16-23-1333	CARBON FILM 33k OHM 1/8W	R328,358,728,730	4
16-23-1391	CARBON FILM 390 OHM 1/8W	R346	1
16-23-1392	CARBON FILM 3.9k OHM 1/8W	R408(J67)	1
16-23-1394	CARBON FILM 390k OHM 1/8W	R337	1
16-23-1471	CARBON FILM 470 OHM 1/8W	R345,502	2
16-23-1472	CARBON FILM 4.7k OHM 1/8W	R335,353,401,719,720, 723,725,727,733,739, 741,801	12
16-23-1473	CARBON FILM 47k OHM 1/8W	R324,403	2
16-23-1561	CARBON FILM 560 OHM 1/8W	R344	1
16-23-1562	CARBON FILM 5.6k OHM 1/8W	R334	1
16-23-1681	CARBON FILM 680 OHM 1/8W	R370	1
16-23-1682	CARBON FILM 6.8k OHM 1/8W	R325	1
16-23-1750	CARBON FILM 75 OHM 1/8W	R811,812,813	3
16-23-1821	CARBON FILM 820 OHM 1/8W	R316	1
MISCELLANEOUS			
14-01-0002	RECEIVER 38kHz		1
15-03-0203	TUNER		1
24-10-0248	ANTENNA CONNECT CABLE		1
24-21-2001	WIRE WAFER 2P		1
24-41-2001	WIRE WAFER 2P		1
24-41-4001	WIRE WAFER 4P		1
24-51-2002	WIRE WAFER 2P		1
24-G1-2001	WIRE HOUSING 2P		1
24-G1-2053	WIRE HOUSING 2P		1
24-G1-3005	WIRE HOUSING 3P		1
24-G1-5011	WIRE HOUSING 5P		1
24-G1-8012	WIRE HOUSING 8P		1
25-03-5023	FUSE 5A 250V	FS201	1
29-32-2501	LED 2x5 RED		1
39-16-0001	H-DRIVE TRANSFORMER		1
43-74-1003	FLYBACK TRANSFORMER		1
58-21-4006	FIBER WASHER		1
69-01-3008	SCREW ISO 3x8 RD+		2
69-24-2606	SCREW TAPPING 2.6x6 RD+		4
69-41-3006	SCREW MTP 3x6 RD+		1
69-41-3008	SCREW MTP 3x8 RD+		1
69-41-3010	SCREW MTP 3x10 RD+		1
70-01-3056	NUT ISO M3		3
87-22-1301	ANTENNA JACK HOLDER		1
87-87-0301	VERTICAL HEAT SINK		1
87-87-1045	HEAT SINK		1
87-G1-0101	HEAT SINK		2
87-G1-0201	POWER HEAT SINK		1
88-01-0804	LED HOLDER		2
88-B3-0701	LED HOLDER		1

PARTS LIST

VIF DETECTOR MODULE PCB ASSEMBLY CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
PCB			
85-13-5051	VIF DETECTOR MODULE PCB		1
SEMICONDUCTORS			
10-20-0202	IC SANYO 7530 20PIN	IC1	1
12-01-1003	TRANSISTOR 5417G (NPN)	Q1	1
12-03-2031	TRANSISTOR 8550 (PNP)	Q2	1
CAPACITORS			
17-15-4103	CERAMIC .01uF 50V +80%-20%	C8	1
17-92-3470	ELECTROLYTIC 47uF 16V ±20%	C24	1
17-92-3479	ELECTROLYTIC 4.7uF 16V ±20%	C16	1
17-93-3478	ELECTROLYTIC .47 uF 25V ±20%	C14	1
28-11-1050	CHIP CERAMIC 5pF 50V ±5%	C3	1
28-11-1060	CHIP CERAMIC 6pF 50V ±5%	C26	1
28-11-1100	CHIP CERAMIC 10pF 50V ±5%	C2,20,X	3
28-11-1150	CHIP CERAMIC 15pF 50V ±5%	C10	1
28-11-2221	CHIP CERAMIC 220pF 50V ±5%	C22	1
28-11-4102	CHIP CERAMIC 1000pF +80%-20%	C15	1
28-11-4103	CHIP CERAMIC .01uF +80%-20%	C5,12,18,27,29,32	6
28-11-4104	CHIP CERAMIC .1uF +80%-20%	C13,17,23,25,28,29,30 31,33,34	10
28-11-4222	CHIP CERAMIC .0022uF +80%-20%	C28	1
COILS & IFTS			
18-03-3001	CERAMIC FILTER SIF 5.5MHz	CF2,4	2
18-03-3002	CF SIF TRAP 5.5MHz	CF1	1
18-03-5003	CF SAF 38.9MHz	CF3	1
18-03-7064	IFT VIF DETECTOR 38.9MHz	T2	1
18-03-7065	IFT VIF 38.9MHz	T3	1
18-03-7075	IFT 0.9uH 12P 48.43MHz	T4	1
18-03-7076	IFT 0.46uH 22P 50MHz	T1	1
19-40-2150	CHOKE 15uH	L4	1
19-40-2330	CHOKE 33 uH	L7,8,9,10,11	5
19-40-2828	CHOKE .82uH	L2,6	2
19-80-2229	CHOKE 2.2uH	L3	1

PARTS LIST
VIF DETECTOR MODULE PCB ASSEMBLY CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
VARIABLE RESISTORS			
21-92-1031	CHIP SVR 10KB	VR1	1
RESISTORS			
16-62-1101	CHIP 100 OHM 1/4W	R28,32	2
16-62-1102	CHIP 1k OHM 1/4W	R22,23	2
16-62-1104	CHIP 100k OHM 1/4W	R14,15	2
16-62-1152	CHIP 1.5k OHM 1/4W	R12	1
16-62-1182	CHIP 1.8k OHM 1/4W	R11,18	2
16-62-1222	CHIP 2.2k OHM 1/4W	R16,27	2
16-62-1271	CHIP 270 OHM 1/4W	R9,25	2
16-62-1273	CHIP 27k OHM 1/4W	R13,31	2
16-62-1331	CHIP 330 OHM 1/4W	R20,33	2
16-62-1392	CHIP 3.9k OHM 1/4W	R10	1
16-62-1471	CHIP 470 OHM 1/4W	R8	1
16-62-1473	CHIP 47k OHM 1/4W	R17	1
16-62-1561	CHIP 560 OHM 1/4W	R29	1
16-62-1680	CHIP 68 OHM 1/4W	R6	1
16-62-1681	CHIP 680 OHM 1/4W	R19	1
16-62-1682	CHIP 6.8k OHM 1/4W	R10	1
16-62-1820	CHIP 82 OHM 1/4W	R30	1
16-62-1829	CHIP 8.2 OHM 1/4W	R34	1
MISCELLANEOUS			
24-42-8051	WIRE WAFER 8P		1
87-12-1001	SIDE SHIELD		1
87-12-1021	BOTTOM SHIELD		1
90-13-5051	VIF LABEL		1

PARTS LIST
CRT SOCKET PCB ASSEMBLY

CTV-552XL
CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
PCB			
85-G1-9001	CRT SOCKET PCB		1
SEMICONDUCTORS			
10-15-1001	IC 4069UBP 14PIN	IC802	1
12-03-1047	TRANSISTOR C2310/2229, NPN	Q601,602,603	3
CAPACITORS			
17-18-4152	CERAMIC .0015uF 500V +80%-20%	C604	1
27-15-1471	CERAMIC 470pF 50V ±5%	C601,602,603	3
27-22-3470	ELECTROLYTIC 47uF 16V ±20%	C806,807,808	3
VARIABLE RESISTORS			
21-72-5023	SEMI-VR 5KB 8DV	SVR601,602	2
RESISTORS			
16-01-1223	22k OHM 1/2W	R601,606,612	3
16-23-1102	1k OHM 1/8W	R814,815,816	3
16-23-1151	150 OHM 1/8W	R605,611,616	3
16-23-1222	2.2k OHM 1/8W	R602,603,607,613,614	5
16-23-1562	5.6k OHM 1/8W	R609	1
16-23-1682	6.8k OHM 1/8W	R817,818,819	3
16-23-1821	820 OHM 1/8W	R604,610,615	3
16-23-1822	8.2k OHM 1/8W	R608	1
MISCELLANEOUS			
23-08-0905	CRT SOCKET		1
24-56-2001	WIRE WAFER 2P		1
24-56-5001	WIRE WAFER 5P		1
24-56-8001	WIRE WAFER 8P		1

PARTS LIST
MAIN PCB ASSEMBLY

CTV-552XL

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
PCB			
85-G1-1002	MAIN PCB (BLANK)		1
SEMICONDUCTORS			
10-05-1005	IC AN78N05 3 PIN	IC201	1
10-10-1017	IC M34300-012SP 42 PIN	IC701	1
10-11-1005	IC M6M 80011P 8 PIN	IC702	1
10-15-1011	IC M4053BP 16 PIN	IC301	1
10-15-1012	IC MC4066B 14 PIN	IC303,801	2
10-15-1013	IC NJM2233AD 8 PIN	IC302	1
10-20-0103	IC AN5512 9 PIN	IC401	1
10-20-0112	IC AN5612 18 PIN	IC306	1
10-20-0115	IC FDA4556 28 PIN	IC305	1
10-20-0403	IC TDA2579A 18 PIN	IC304	1
10-20-1009	IC AN5265 9 PIN	IC501	1
10-20-1012	IC LA7910 9 PIN	IC703	1
12-01-1002	TRANSISTOR 5417F (NPN)	Q302,303,305	3
12-02-1002	TRANSISTOR 9014D (NPN)	Q705	1
12-02-1003	TRANSISTOR 2SC945 (NPN)	Q203,301,304,701,702, 703,704,801,802	9
12-03-2031	TRANSISTOR 8550 (PNP)	Q202	1
12-03-2033	TRANSISTOR 2SA1012 (PNP)	Q201	1
12-04-1002	TRANSISTOR D788CD/2SC2500	Q401	1
12-04-1013	TRANSISTOR BU407 (NPN)	Q402	1
12-05-5009	TRANSISTOR X'TAL 8.86MHz	X'TAL 301	1
12-05-5012	TRANSISTOR X'TAL 4.0 MHz	X'TAL 701	1
13-03-1000	DIODE IN4148/MA161	D206,207,IC4053#9,X,X	5
13-05-1000	DIODE IN4001 1A 50V	D401	1
13-05-1003	DIODE IN5400 3A 50V	D201	1
13-05-1008	DIODE PR1005 1A	D405	1
13-05-1011	DIODE PR3005 3A 600V	D402	1
13-05-1025	DIODE PR6005 6A 600V	D403	1
13-05-1045	DIODE PX4A01 4A 50V	D101,102,103,104	4
13-06-1330	DIODE ZENER 33V	D406	1
13-06-1519	DIODE ZENER 5.1V	D205	1
13-06-1689	DIODE ZENER 6.8V	D302	1
13-23-1000	DIODE IN4148	D202,203,204,301,303, 304,404,701,702,703, 704,705,706,707,708, 709,710,711,712,713, 801	21
CAPACITORS			
17-05-2479	ELECTROLYTIC 4.7uF 50V±10%	C416	1
17-15-1121	CERAMIC 120pF 50V ±5%	C354	1
17-15-1180	CERAMIC 18 pF 50V ±5%	VC301	1
17-15-2221	CERAMIC 220pF 50V ±10%	CX,IC306#2	2
17-15-4102	CERAMIC 1000 pF 50V +80%-20%	CPU3,4	2
17-18-4152	CERAMIC .0015uF 500V +80%-20%	C415,418,423,604,CPU10 CPU20	6
17-21-3471	ELECTROLYTIC 470 uF 10V ±20%	C315,322	2

PARTS LIST
MAIN PCB ASSEMBLY

CTV-552XL

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
CAPACITORS			
17-22-3102	ELECTROLYTIC 1000uF 16V±20%	C404,508	2
17-22-3221	ELECTROLYTIC 220uF 16V ±20%	C378	1
17-22-3471	ELECTROLYTIC 470uF 16V ±20%	C204,205,419	3
17-23-3472	ELECTROLYTIC 4700uF 25V ±20%	C201	1
17-23-3682	ELECTROLYTIC 6800uF 25V ±20%	C105	1
17-24-3101	ELECTROLYTIC 100 uF 35V ±20%	C409	1
17-24-3102	ELECTROLYTIC 1000uF 35V ±20%	C410	1
17-24-3222	ELECTROLYTIC 2200uF 35V ±20%	C420	1
17-26-3220	ELECTROLYTIC 22 uF 160V ±20%	C424,426	2
17-26-3229	ELECTROLYTIC 2.2uF 160V ±20%	C421,422	2
17-35-2104	MYLAR .1uF 50V ±10%	C331,408,427,428	4
17-35-2154	MYLAR .15uF 50V ±10%	C326,329,337	3
17-35-2223	MYLAR .022uF 50V ±10%	C407	1
17-45-2272	PS 2700 pF ±10%	C327	1
17-52-2109	TANTALUM 1uF 16V ±10%	C403	1
17-67-2332	DPPN .0033uF 250V±10%	=C417	1
17-68-2823	DPPN .082uF 400V ±10%	C417	1
17-A5-4104	MCC 0.1 uF 50V +80%-20%	C202	1
27-15-1101	CERAMIC 100pF 50V ±5%	C203,360,368,379,711	5
27-15-1150	CERAMIC 15pF 50V ±5%	C701	1
27-15-1151	CERAMIC 150pF 50V ±5%	C335,336,714,715	4
27-15-1181	CERAMIC 180pF 50V ±5%	C350,355	2
27-15-1220	CERAMIC 22 pF 50V ±5%	C353,356,703,704	4
27-15-1390	CERAMIC 39 pF 50V ±5%	C702	1
27-15-1680	CERAMIC 68 pF 50V ±5%	C352,357,713,720	4
27-15-2121	CERAMIC 120pF 50V ±10%	C348,358	2
27-15-2221	CERAMIC 220pF 50V ±10%	C341,721	2
27-15-2391	CERAMIC 390pF 50V ±10%	C340	1
27-15-2471	CERAMIC 470pF 50V ±10%	C406	1
27-15-2561	CERAMIC 560pF 50V ±10%	C405,705,706,707,708,723	6
27-15-4102	CERAMIC .001uF 50V +80%-20%	C308,347	2
27-15-4103	CERAMIC .01uF 50V +80%-20%	C101,102,103,104,316,359,X	7
27-15-4104	CERAMIC 0.1uF 50V +80%-20%	C303,305,324,328,373,374,375,414	8
27-15-4202	CERAMIC .002uF 50V +80%-20%	C371	1
27-15-4203	CERAMIC .02uF 50V +80%-20%	C313,316,321,339,362,425,503	7
27-15-4502	CERAMIC .005uF 50V +80%-20%	C710	1
27-22-3101	ELECTROLYTIC 100uF 16V ±20%	C306,317,318,502,719	5
27-22-3221	ELECTROLYTIC 220uF 16V ±20%	C323,365,378,509	4
27-22-3330	ELECTROLYTIC 33 uF 16V ±20%	C402	1
22-22-3470	ELECTROLYTIC 47uF 16V ±20%	C301,304,310,314,709,803,804,805	8
27-23-3100	ELECTROLYTIC 10uF 25V ±20%	C302,309,312,319,320,332,336,364,366,370,376,377,505,506,722,802	16
27-23-3220	ELECTROLYTIC 22uF 25V ±20%	C330,334,361	3
27-23-3228	ELECTROLYTIC .22uF 25V ±20%	C369,507	2
27-23-3229	ELECTROLYTIC 2.2uF 25V ±20%	C307,333,413,801	4

PARTS LIST
MAIN PCB ASSEMBLY

CTV-552XL

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
CAPACITORS			
27-23-3338	ELECTROLYTIC .33uF 25V ±20%	C342,344	2
27-23-3478	ELECTROLYTIC .47uF 25V ±20%	C401	1
27-25-3109	ELECTROLYTIC 1uF 50V ±20%	C367,370,501,504,717 718	6
27-25-3479	ELECTROLYTIC 4.7uF 50V ±20%	C349,351,712,716	4
27-35-2223	MYLAR .022uF 50V ±10%	C345,346,363,411	4
27-35-2273	MYLAR .027uF 50V ±10%	C412	1
27-35-2472	MYLAR .0047uF 50V ±10%	C325,338	2
27-35-2473	MYLAR .047uF 50V ±10%	C343	1
CHOKES & IFTS			
18-03-7004	IFT VIF DETECTOR 38.9MHz	T302,303	2
19-07-7002	IFT CROMA	T301	1
19-40-2100	CHOKE 10uH	L304,305,307	3
19-40-2689	CHOKE 6.8uH	L701	1
19-40-2828	CHOKE .82uH	L402	1
19-40-3101	CHOKE 100uH	L301,302,303,306,308, 501	6
19-40-3151	CHOKE 150uH	LX	1
19-43-1130	LINEAR COIL 13uH	L401	1
19-45-3391	DELAY LINE 330uS	DL302	1
19-45-6401	DELAY LINE 64uS	DL301	1
JACKS			
23-01-0004	FUSE HOLDER		2
23-03-3502	MICROPHONE JACK 3.5D		1
23-04-1316	AC SOCKET		1
23-05-5001	DC JACK, 4.5D		1
23-06-0015	RCA JACK, AUDIO		1
23-06-0016	RCA JACK, VIDEO		1
23-06-0028	SOCKET, 21 PIN		1
SWITCHES			
22-12-0115	SWITCH, SLIDE, 1P2T	SW201	1
22-12-0432	SWITCH, SLIDE, 4P2T	SW801	1
22-42-0209	SWITCH, PUSH, 2P2T	SW401	1
22-81-0103	SWITCH, TACT	SW701,702,703,704,705 706,707,708,709,710	10
VARIABLE RESISTORS			
21-72-1031	SVR 10KB	SVR302	1
21-72-2021	SVR 2KB	SVR201	1
21-72-3010	SVR 300B	SVR401	1
21-72-5024	SVR 5KB	SVR402	1
21-72-5031	SVR 50KB	SVR301	1
RESISTORS			
16-01-1470	CARBON FILM 47 OHM 1/2W	R412	1
16-03-1101	CARBON FILM 100 OHM 1/8W	LED	1

PARTS LIST
MAIN PCB ASSEMBLY CTV-552XL

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-03-1103	CARBON FILM 10k OHM 1/8W	RX,X	2
16-03-1105	CARBON FILM 1M OHM 1/8W	R370	1
16-03-1682	CARBON FILM 6.8kOHM 1/8W	RX	1
16-07-1479	CARBON FILM 4.7 OHM 2 W	R505	1
16-07-1822	CARBON FILM 8.2kOHM 2 W	R417	1
16-12-1101	CARBON FILM 100 OHM 1/4W	R407	1
16-12-1103	CARBON FILM 10k OHM 1/4W	R418	1
16-12-1151	CARBON FILM 150 OHM 1/4W	R364	1
16-12-1159	CARBON FILM 1.5 OHM 1/4W	R406	1
16-12-1221	CARBON FILM 220 OHM 1/4W	R501	1
16-12-1229	CARBON FILM 2.2 OHM 1/8W	R416	1
16-12-1330	CARBON FILM 33 OHM 1/8W	R201,204	2
16-12-1680	CARBON FILM 68 OHM 1/8W	R(C414)	1
16-23-1272	CARBON FILM 2.7k OHM 1/8W	R208	1
16-23-1561	CARBON FILM 560 OHM 1/8W	R207	1
16-43-7303	CARBON FILM 30k OHM 1/8W	R330	1
16-23-1101	CARBON FILM 100 OHM 1/8W	R318,329,712,713,714, 744,745,803	8
16-23-1102	CARBON FILM 1 k OHM 1/8W	R205,206,302,319,336, 338,352,368,729,731, 802,805,L001	13
16-23-1103	CARBON FILM 10k OHM 1/8W	R202,311,331,340,341, 363,415,715,716,717, 718,724,726,732,734, 735,736,740,806,807, 808,814	22
16-23-1104	CARBON FILM 100k OHM 1/8W	R309,310,312,315,409, 738	6
16-23-1105	CARBON FILM 1M OHM 1/8W	R313,314,320	3
16-23-1109	CARBON FILM 1 OHM 1/8W	R504	1
16-23-1122	CARBON FILM 1.2k OHM 1/8W	R332,342,347,358,722, 743	6
16-23-1123	CARBON FILM 12k OHM 1/8W	R203,327,362	3
16-23-1151	CARBON FILM 150 OHM 1/8W	R301	1
16-23-1152	CARBON FILM 1.5k OHM 1/8W	R323	1
16-23-1153	CARBON FILM 15k OHM 1/8W	R339,414,721	3
16-23-1154	CARBON FILM 150k OHM 1/8W	R737	1
16-23-1182	CARBON FILM 1.8k OHM 1/8W	R322,355	2
16-23-1183	CARBON FILM 18 k OHM 1/8W	R326	1
16-23-1220	CARBON FILM 22 OHM 1/8W	R333	1
16-23-1221	CARBON FILM 180 OHM 1/8W	R351,404,501	3
16-23-1222	CARBON FILM 2.2k OHM 1/8W	R206,410,411,809,810	5
16-23-1223	CARBON FILM 22k OHM 1/8W	R348,701,702,703,704, 705,706,707,708,709, 710,711	12
16-23-1229	CARBON FILM 2.2 OHM 1/8W	R413	1
16-23-1271	CARBON FILM 270 OHM 1/8W	R356,502	2
16-23-1272	CARBON FILM 2.7k OHM 1/8W	R305,354	2
16-23-1273	CARBON FILM 27k OHM 1/8W	R349	1
16-23-1330	CARBON FILM 33 OHM 1/8W	R402,J15	2
16-23-1331	CARBON FILM 330 OHM 1/8W	R350,359,360,361,804	5

PARTS LIST
MAIN PCB ASSEMBLY CTV-552XL

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-23-1332	CARBON FILM 3.3k OHM 1/8W	R323,365,366,367,405, 742	6
16-23-1333	CARBON FILM 33k OHM 1/8W	R328,358,728,730	4
16-23-1391	CARBON FILM 390 OHM 1/8W	R346	1
16-23-1392	CARBON FILM 3.9k OHM 1/8W	R408(J67)	1
16-23-1393	CARBON FILM 39 k OHM 1/8W	R503	1
16-23-1394	CARBON FILM 390k OHM 1/8W	R337	1
16-23-1471	CARBON FILM 470 OHM 1/8W	R345,502	2
16-23-1472	CARBON FILM 4.7k OHM 1/8W	R316,335,353,357,401, 719,720,723,725,727, 733,739,741,801	14
16-23-1473	CARBON FILM 47k OHM 1/8W	R324,403	2
16-23-1561	CARBON FILM 560 OHM 1/8W	R344	1
16-23-1562	CARBON FILM 5.6k OHM 1/8W	R334	1
16-23-1681	CARBON FILM 680 OHM 1/8W	R343,370	2
16-23-1682	CARBON FILM 6.8k OHM 1/8W	R325	1
16-23-1750	CARBON FILM 75 OHM 1/8W	R811,812,813	3
16-23-1820	CARBON FILM 82 OHM 1/8W	R301	1
16-23-1822	CARBON FILM 8.2k OHM 1/8W	R740	1
MISCELLANEOUS			
14-01-0002	RECEIVER 38kHz		1
15-03-0203	TUNER		1
24-10-0248	ANTENNA CONNECT CABLE		1
24-21-2001	WIRE WAFER 2P		1
24-41-2001	WIRE WAFER 2P		1
24-41-4001	WIRE WAFER 4P		1
24-51-2002	WIRE WAFER 2P		1
24-51-9001	WIRE WAFER 9P		1
24-G1-2001	WIRE HOUSING 2P		1
24-G1-2053	WIRE HOUSING 2P		1
24-G1-3005	WIRE HOUSING 3P		1
24-G1-5011	WIRE HOUSING 5P		1
24-G1-8012	WIRE HOUSING 8P		1
25-03-5023	FUSE 5A 250V	FS201	1
29-32-2501	LED 2x5 RED		1
39-16-0001	H-DRIVE TRANSFORMER		1
43-74-1003	FLYBACK TRANSFORMER		1
58-21-4006	FIBER WASHER		1
69-01-3008	SCREW ISO 3x8 RD+		2
69-24-2606	SCREW TAPPING 2.6x6 RD+		4
69-41-3006	SCREW MTP 3x6 RD+		1
69-41-3008	SCREW MTP 3x8 RD+		1
69-41-3010	SCREW MTP 3x10 RD+		1
70-01-3056	NUT ISO M3		3
87-22-1301	ANTENNA JACK HOLDER		1
87-87-0301	VERTICAL HEAT SINK		1
87-87-1045	HEAT SINK		1
87-G1-0101	HEAT SINK		2
87-G1-0201	POWER HEAT SINK		1
88-01-0804	LED HOLDER		2
88-B3-0701	LED HOLDER		1

PARTS LIST
VIF DETECTOR MODULE PCB ASSEMBLY CTV-552XL

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
PCB			
85-13-5056	VIF DETECTOR MODULE PCB		1
SEMICONDUCTORS			
10-01-1002	IC TDA1220B 16PIN	IC2	1
10-20-0202	IC SANYO 7530 20PIN	IC1	1
12-01-1003	TRANSISTOR 5417G (NPN)	Q2,3	2
12-03-2031	TRANSISTOR 8550 (PNP)	Q1	1
13-03-1000	DIODE MA161/IN4148	DX	1
13-05-1012	DIODE IN5817 1A 20V	D1	1
CAPACITORS			
17-15-1151	CERAMIC 150pF 50V ±5%	=R32	1
17-15-2471	CERAMIC 470pF 50V ±10%	C1+R3	1
17-15-4103	CERAMIC .01uF 50V +80%-20%	C13	1
17-15-4104	CERAMIC .1uF 50V +80%-20%	=IC1,18,20PIN	1
17-21-3109	ELECTROLYTIC 1 uF 10V ±20%	C34	1
17-22-3100	ELECTROLYTIC 10 uF 16V ±20%	C32	1
17-22-3101	ELECTROLYTIC 100 uF 16V ±20%	C1,36,39,40	4
17-22-3221	ELECTROLYTIC 220 uF 16V ±20%	C29,31,33	3
17-22-3470	ELECTROLYTIC 47 uF 16V ±20%	C4,14,35,41	4
17-22-3479	ELECTROLYTIC 4.7 uF 16V ±20%	C37	1
17-23-3478	ELECTROLYTIC .47 uF 25V ±20%	C12	1
28-13-1050	CHIP CERAMIC 5pF 25V ±5%	C30	1
28-13-1100	CHIP CERAMIC 10pF 25V ±5%	C5	1
28-13-1101	CHIP CERAMIC 100pF 25V ±5%	C8,26	2
28-13-1181	CHIP CERAMIC 180pF 25V ±5%	C27	1
28-13-1221	CHIP CERAMIC 220pF 25V ±5%	C2	1
28-13-4102	CHIP CERAMIC 1000pF +80%-20%	C11	1
28-13-4103	CHIP CERAMIC .01uF +80%-20%	C6,9,15,21,22,24	6
28-13-4104	CHIP CERAMIC .1uF +80%-20%	C3,7,10,16,17,18,19,20 28,38	10
28-13-4203	CHIP CERAMIC .02uF +80%-20%	C33,42	2
28-13-4222	CHIP CERAMIC .0022uF +80%-20%	C23,25	2
COILS & IFTS			
18-03-3001	CERAMIC FILTER SIF 5.5MHz	CF2,3	2
18-03-3002	CF SIF TRAP 5.5MHz	CF1	1
18-03-5003	CF SAF 38.9MHz	CF4	1
18-03-7001	IFT VIF DETECTOR 38.9MHz	T5	1
18-03-7064	IFT VIF DETECTOR 38.9MHz	T1	1
18-03-7065	IFT VIF 38.9MHz	T2	1
18-07-3001	CF SIF TRAP 6.5MHz	CF5	1
18-07-7001	IFT SIF DETECTOR 32MHz	T3,4	2

PARTS LIST

VIF DETECTOR MODULE PCB ASSEMBLY CTV-552XL

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
COILS & IFTS			
19-40-2150	CHOKE 15uH	L1,10	2
19-40-2330	CHOKE 33 uH	L3,4,5,6,7	5
19-40-2828	CHOKE .82uH	L8,9	2
19-80-2229	CHOKE 2.2uH	L2	1
VARIABLE RESISTORS			
21-92-1031	CHIP SVR 10KB	VR1	1
RESISTORS			
16-63-1101	CHIP 100 OHM 1/8W	R2,20,24,25	4
16-63-1102	CHIP 1k OHM 1/8W	R26,28,31	3
16-63-1103	CHIP 10k OHM 1/8W	R27	1
16-63-1104	CHIP 100k OHM 1/8W	R10,12	2
16-63-1152	CHIP 1.5k OHM 1/8W	R18	1
16-63-1182	CHIP 1.8k OHM 1/8W	R7,16	2
16-63-1222	CHIP 2.2k OHM 1/8W	R17,30	2
16-63-1223	CHIP 22k OHM 1/8W	R15	1
16-63-1271	CHIP 270 OHM 1/8W	R9,14	2
16-63-1273	CHIP 27k OHM 1/8W	R11,19	2
16-63-1331	CHIP 330 OHM 1/8W	R5,6	2
16-63-1471	CHIP 470 OHM 1/8W	R4,13	2
16-63-1472	CHIP 4.7k OHM 1/8W	R21,29	2
16-63-1473	CHIP 47k OHM 1/8W	R8,33	2
16-63-1561	CHIP 560 OHM 1/8W	R23,32	2
16-63-1750	CHIP 75 OHM 1/8W	R1	1
16-63-1820	CHIP 82 OHM 1/8W	R22	1
MISCELLANEOUS			
24-13-9002	WIRE HOUSING 9P		1
24-42-9051	WIRE WAFER 9P		1